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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/997,536	11/29/2001	Masaki Aoki	NAK I-AY33ara	7590	
21611 7	590 06/03/2004		EXAMINER		
SNELL & WI	ILMER LLP		KUNEMUND	, ROBERT M	
1920 MAIN ST	TREET		<u> </u>		
SUITE 1200		ART UNIT	PAPER NUMBER		
IRVINE, CA	IRVINE, CA 92614-7230			1765	
			DATE MAIL ED. 06/02/200	4	

DATE MAILED: 06/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

 	Application No.	Applicant(s)			
	09/997,536	AOKI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Robert M Kunemund	1765			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)☐ Responsive to communication(s) filed on 2a)☐ This action is FINAL. 2b)☒ This 3)☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) <u>28-35</u> is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>28-35</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Se dion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:				
C. Data - Land Trademark Office					

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The reissue oath/declaration filed with this application is defective (see 37 CFR 1.175 and MPEP § 1414) because of the following:

The error set forth does not match the changes made to the claims. The error recites a need to add apparatus limitations to the method claims. However, the changes made to the claims recite apparatus only.

Claims 28 to 35 are rejected as being based upon a defective reissue oath under 35 U.S.C. 251 as set forth above. See 37 CFR 1.175.

The nature of the defect(s) in the oath is set forth in the discussion above in this Office action.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claims 28 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al. (Wo 96/32520)

The Lee et al reference teaches an apparatus for the deposition of oxide thin films including magnesium. In a chamber, an electron beam gun is placed and point at the substrate. The electron bean gun can then be used to grow magnesium oxide thin film, note page 5. The sole difference between the instant claims and the prior art the orientation of the grown layer. However, in the absence of unexpected results, it would have been obvious to one of ordinary skill in the art to determine through routine experimentation the optimum, operable orientation of the grown layer in the Lee et al reference as the orientation of the grown layer is a known result effective variable.

Claims 30 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matthews (epitaxial Growth).

The Matthews reference teaches a CVD apparatus. The apparatus consists of a reaction chamber with a substrate inside of it. There is means to flow gases into the reactor by separate lines. One line can be from a gas source while another line can have a bubbler in the line to entrench the gas, note pages99 and 100. The sole difference between the instant claims and the prior art is the materials used as the sources. However, in the absence of unexpected results, it would have been obvious to one of ordinary skill in the art to source materials in the Matthews reference in order to deposit the desired layers as the reference does teach use of different materials, note page 91.

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Claims 32 to 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matthews in view of Vossen et al (thin film processes)

The Matthews reference is relied on for the same reasons as state, supra, and differs from the instant claims in the use of a plasma. However, the Vossen et al reference teaches a CVD apparatus with a plasma means, note page 341. It would have been obvious to one of ordinary skill in the art to modify the Matthews reference by the teachings of the Vossen et al reference to use a plasma means as the source of energy to decompose the source gases in order to increase the quality of the deposited films.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert M Kunemund whose telephone number is 571-272-1464. The examiner can normally be reached on 8 hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on 571-272-1465. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RMK

ROBERT KUNEMUND PRIMARY EXAMINER